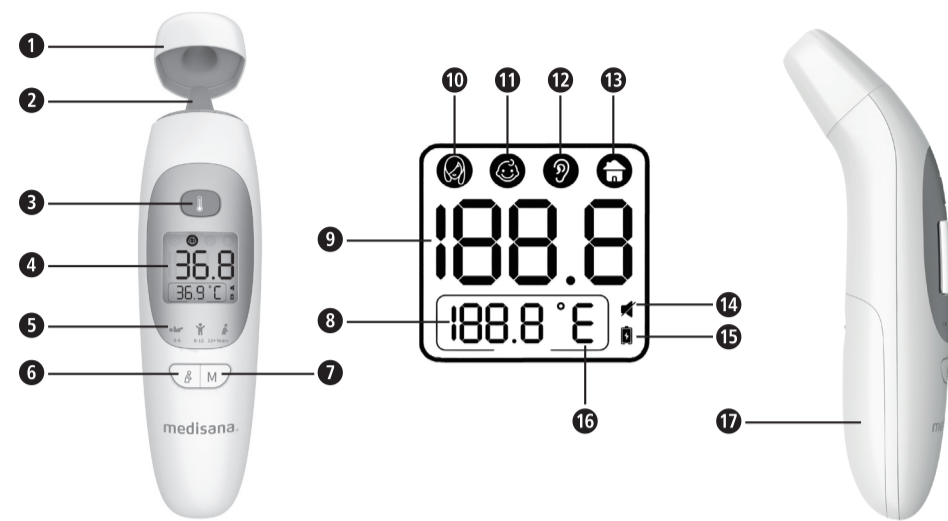


GB Instruction manual Infrared thermometer TM A68



Device and controls

- 1 Sensor cover (remove for ear measurement; put on for forehead and direct measurement)
- 2 Sensor
- 3 Button ON/MEASURE
- 4 Backlight LCD
- 5 LED Indicator
- 6 Age group button (Forehead mode)
- 7 Mode button
- 8 Previous temperature value
- 9 Current temperature value
- 10 Adult forehead mode (over 12 years)
- 11 Child forehead mode
- 12 Ear mode
- 13 Direct mode
- 14 Signal tone on/off
- 15 Low battery indicator
- 16 Measurement unit (°C/°F)
- 17 Battery compartment cover

Intended use

The **TM A68** infrared thermometer from **medisana** is designed for measuring human body temperature. The forehead measurement mode is suitable for use by people of all ages and the ear measurement mode for use by people over three months of age. Additionally, the temperature of objects can be measured under direct mode.

Contraindication

Do not use the thermometer if the ear is infected with otitis or suppuration.

Explanation of symbols

IMPORTANT!
Refer to instruction manual recommended.

WARNING
These warning notes must be observed to prevent any injury to the user.

CAUTION
These notes must be observed to prevent any damage to the device.

NOTE
These notes give you useful additional information on the installation or operation.

IP22 **Indication of the degree of protection against foreign bodies and water** (Protected against solid foreign bodies of 12.5 mm Ø and more / When the thermometer is held at an angle of 15 degrees, no water droplets penetrate)

Classification: Type BF applied part **LOT** LOT number
Manufacturer **Date of manufacture**

This product must not be disposed of together with domestic waste.

CE 0123 CE marking

Recycling symbols/codes: These are used to provide information about the material and its proper use and recycling.

Temperature range Humidity range Ambient pressure limitation

EC REP Authorized Representative In The European Community

SN Serial number

MD Medical device

Protect from moisture

GB Safety Information

Read the instruction manual carefully before using this device, especially the safety instructions, and keep the instruction manual for future use. Should you give this device to another person, it is vital that you also pass on these instructions for use.

- Only use the unit for the specific purpose described in the instruction manual. Any misuse will void the warranty.
- The unit is not designed for commercial use.
- Keep the appliance away from children under 12 years of age. When using on children, they must be supervised by an adult. Please observe the general safety instructions when using on children.
- Never immerse the thermometer in water or other liquids, it is not waterproof. For cleaning and care, please follow the instructions in the corresponding chapter in this manual.
- The sensor must be cleaned after each use (see chapter „Cleaning and care“).
- Keep the thermometer away from direct sunlight and store it in a dust-free, dry and well-ventilated place in accordance with the „Storage conditions“ in the chapter „Technical data“. Only use the thermometer in environments as specified in „Operating conditions“.
- Do not touch the tip of the temperature sensor - it is very sensitive.
- Always keep the temperature sensor clean to ensure accurate readings.
- Do not use the thermometer if the sensor or the unit itself show signs of damage. If the unit is damaged, do not attempt to repair it! Please contact customer service.
- No modifications are permitted on this thermometer. Unauthorised modification may result in serious hazards.
- This thermometer is made of high quality precision parts. Do not drop the device. Protect it from strong shocks and impacts. Do not twist the device or the sensor and generally handle the device with great care.
- Contact your doctor if you notice symptoms such as unexplained irritability, vomiting, diarrhoea, dehydration, changes in appetite or activity, seizures, muscle pain, chills, stiff neck, pain when urinating, etc. - even if there is no fever.
- Even people with normal body temperature (if no fever is detected) may need medical attention. For people taking antibiotics, painkillers or antipyretics, the severity of the illness should not be judged by temperature alone.
- Elevated fever can be an indication of serious illness, especially in elderly, frail or immunocompromised adults and in newborns and infants. Please seek professional advice immediately if an increase in temperature occurs when the following groups of people are measured: - people over 60 years of age (fever may be attenuated or absent in elderly patients), - people with diabetes mellitus or weakened immune system (e.g. HIV positive, cancer, chemotherapy, chronic steroid treatment, splenectomy), - bedridden (e.g. nursing home patient, stroke, chronic illness), - transplant patients (e.g. transplants of liver, heart, lung, kidney).
- This thermometer is not suitable for premature or gestational age babies. This thermometer is not suitable for interpreting hypothermic temperatures. Do not leave children unattended to take their temperature.
- Do not use the thermometer on newborns or for continuous temperature monitoring.
- Do not take a reading during or immediately after breastfeeding a baby.
- Patients should not drink, eat or exercise before or during the measurement.
- The use of this thermometer is not a substitute for a consultation with your doctor or paediatrician.
- Do not take measurements in quick succession, always wait at least 10 seconds.
- The thermometer is not intended to diagnose or treat any health problem or disease. The measurement results are for reference only, always consult your doctor.

BATTERY SAFETY INSTRUCTIONS

- Do not disassemble the batteries!
- Remove exhausted batteries from the unit immediately! Also remove the batteries if you do not use the unit for 2 months or longer!
- Do not use rechargeable batteries!
- Keep the battery compartment closed!
- Increased risk of leakage, avoid contact with skin, eyes and mucous membranes! In case of contact with battery acid, rinse the affected areas immediately with plenty of clean water and consult a doctor immediately!
- If a battery has been swallowed, consult a doctor immediately!
- Insert the batteries correctly, observe the polarity!
- Only insert batteries of the same type, do not use different types or used and new batteries together!
- Keep batteries away from children!
- Do not recharge batteries! Do not short-circuit! Do not throw into fire! **Danger of explosion!**
- Store unused batteries in the packaging and not near metallic objects to avoid short-circuiting!

Scope of supply

Please check first of all that the device is complete and is not damaged in any way. In case of doubt, do not use it and contact your dealer or the service centre.

The following parts are included:

- 1 **medisana** Infrared thermometer **TM A68**
- 1 Pouch
- 2 Batteries 1.5V (type AAA/LR03)
- Instruction manual

Please contact your supplier if you notice any transport damage on unpacking the unit.

The packaging can be reused or recycled. Please dispose properly of any packaging material no longer required. If you notice any transport damage during unpacking, please contact your dealer without delay.

WARNING - Pay attention, that the polythene packing is kept away from the reach of children! Risk of suffocation!

Product description

The infrared thermometer measures body temperature based on the infrared energy emitted from the eardrum or forehead. After correctly positioning the temperature sensor in the ear canal or on the forehead, the user can quickly obtain measurement results. Normal body temperature lies within a certain range. The following table shows that this normal range also varies from measurement location to measurement location. Therefore, readings from different locations should not be directly compared. Tell your doctor what type of thermometer you used to take your temperature and at which body site. Keep this in mind even if you are self-diagnosing.

Measuring site	Normal body temperature
Forehead	36.1°C - 37.5°C (97°F - 99.5°F)
Ear	35.8°C - 38°C (96.4°F - 100.4°F)
Oral	35.5°C - 37.5°C (95.9°F - 99.5°F)
Rectal	36.6°C - 38°C (97.9°F - 100.4°F)
Ampit	34.7°C - 37.3°C (94.5°F - 99.1°F)

Features

- The option of selecting an age group (0 - 6 years / 6 - 12 years / over 12 years) enables more accurate measurement results. For the child age groups up to 12 years, we recommend measurement in forehead mode.
- The device can store up to 40 measurement results and has a silent and a signal tone mode as well as an acoustic and optical fever warning.

Remove / insert batteries

If the low battery indicator **15** or nothing at all appears in the LCD display **14** after a certain period of operation, 2 new 1.5V batteries (type AAA / LR03) must be inserted. Note: When using the unit for the first time, the insulating strip may need to be removed for the unit to work.

Changing the batteries: Open the battery compartment cover **17** and remove the batteries. Insert two new 1.5 V batteries (type AAA / LR03). Make sure that the batteries are lying in the correct direction. Close the battery compartment. When the batteries are changed, all stored results are deleted.

Operation - Notes on the measurements

To avoid inaccurate results, please note the following points:

- Only use indoors where there is no wind.
- Measure only when you are relaxed. Previous, strong movements (e.g. sport) or strong tension can lead to incorrect readings.
- The ambient temperature must not be extremely high or low. To ensure accurate readings, keep the thermometer at room temperature for more than 30 minutes before use.
- Do not hold the thermometer in your hand for a long time as it is very sensitive to heat.
- The device has been subjected to clinical tests. Safe use can be achieved by following the instructions given in this manual.

Take a temperature on the forehead

1. Make sure that the sensor cover **1** is in place and switch on the thermometer by briefly pressing the button **3**.
2. Use button **6** to set the age group (0 - 6 years / 6 - 12 years / over 12 years).
3. If not already preselected automatically, select the measuring mode **10** (adult forehead measurement) or **11** (child forehead measurement) using the mode button **7**.
4. Aim the thermometer at the centre of the forehead to measure the body temperature and keep a distance of 1 - 3 cm. Press and hold button **3** for approx. 1 second. The device measures the temperature, emits an acoustic signal and displays the measured value.
5. Without further input, the unit switches off after approx. 13 seconds.

Taking a temperature in the ear

1. Remove the sensor cover **1** from the device and switch on the thermometer by briefly pressing the button **3**.
2. If not already automatically preselected, select the measurement mode **12** (ear measurement) using the mode button **7**.
3. Carefully insert the sensor **2** into the ear canal without applying great force to measure the body temperature. For children up to 1 year of age, it is advisable to pull the ear back slightly when doing this (see fig. a). For older children and adults, the ear can be pulled slightly upwards and backwards (see fig. b) to bring the ear canal into a straight course so that the sensor can take a temperature reading at the eardrum.
4. Press and hold button **3** for approx. 1 second. The device measures the temperature, emits an acoustic signal and displays the measured value. Now carefully remove the thermometer from the ear and release the ear again.
5. Without further input, the unit switches off after approx. 13 seconds.

- WARNING! Prevent injury or inaccurate measurement results:**
- Remove earwax or blockages in the ear canal before taking a measurement.
 - Never force the sensor into the ear canal.
 - The measurement in the right ear may differ from the measurement in the left ear.
 - Therefore, always measure the temperature in the same ear.
 - Be especially careful with children because of their small ear canal.
 - We recommend forehead measurement for children up to 12 years.

Measuring an object temperature

1. Make sure that the sensor cover **1** is in place and switch on the thermometer by briefly pressing the button **3**.
2. Select the measurement mode **13** (direct mode) using the mode button **7**.
3. Aim the thermometer at the centre of the object and keep a distance of 1 - 3 cm. Press and hold button **3** for approx. 1 second. The unit measures the temperature, emits an acoustic signal and displays the measured value.
4. Without further input, the unit switches off after approx. 13 seconds.

Classification of the measured temperature (T)

Ear or forehead measurement: Depending on the measured temperature, the display appears with different backlighting or different signal tones are emitted (not in silent mode), see the following list. In direct mode, a long tone always sounds and the display is backlit in white.

- 32°C (89.6°F) ≤ T ≤ 37.5°C (99.5°F) : Illumination green, one long beep
- 37.6°C (99.7°F) ≤ T ≤ 38°C (100.4°F) : Illumination orange, 6 short beeps (slight fever).
- 38.1°C (100.6°F) ≤ T ≤ 42.9°C (109.2°F) : Illumination red, 6 short signal tones (high fever)

Switch signal tones on/off

You can switch the signal tones on or off. To do this, press and hold the button **14** for about 5 seconds while the unit is switched on. Depending on the currently set status, either the corresponding symbol **14** appears (signal tones off) or the symbol disappears (signal tones on).

Set measuring unit

The measuring unit can be set to degrees Celsius (°C) or degrees Fahrenheit (°F). To change the unit, press and hold button **16** for approx. 2 seconds when the unit is switched on.

Retrieving / deleting memory data

The measured temperatures are stored by the unit (max. 40 results). With the unit switched on, press and hold the mode button **7** for approx. 5 seconds to call up the values in the memory. The last result measured is displayed first. You can also view the values stored before by pressing the mode button **7**. If no other value exists, "—" is displayed.

Important notes regarding the determination of body temperature

- It is important to know the normal temperature of each person when they are healthy. This is the only way to accurately diagnose a fever. Take the temperature twice a day (early morning and late afternoon). Take the average of the two temperatures to calculate the normal oral equivalent temperature. Always take the temperature in the same place, as temperature readings may be different in different places.
- A child's normal temperature can vary between 36.1°C (97°F) and 37.7°C (99.9°F). Please note that this device reads 0.5°C (0.9°F) lower than a rectal digital thermometer.
- External factors can noticeably affect the temperature reading, such as: - prolonged lying on one ear, - covering with hair, - prolonged exposure to high or low ambient temperatures, - bathing or swimming before taking a reading. You should always relax for about 20 minutes before the measurement in a well-tempered, quiet environment so as not to falsify the result. If you want to take an ear measurement and use medication (e.g. ear drops) in one ear, use the other ear for the measurement.
- Always remove hair, sweat, dirt, etc. before taking a measurement and wait 10 minutes before taking the measurement.
- In the following situations, it is recommended to take 3-5 measurements at the same site and take the highest value as the reading: • In newborn children in the first 100 days, • In children under 3 years of age with a weakened immune system where the presence or absence of fever is critical, • For first-time use, until the user has become familiar with the device and is getting consistent readings.

Cleaning and maintenance

Clean the sensor **2** at least 5 minutes before and after each use. You can use a cotton swab moistened with 70% alcohol for this. After the alcohol has dried completely, you can take a new measurement. After use, the housing should also be cleaned with a soft, dry or very slightly damp cloth. Always make sure that no liquid gets inside the thermometer. Never use abrasive cleaners, thinners or benzene for cleaning and do not immerse the device in water or other cleaning liquids. Be careful not to scratch the surface of the LCD display.

Troubleshooting

Problem: The thermometer fails to power on.
Possible cause: Low batteries / wrong polarity / thermometer is damaged.
Solution: Exchange batteries and make sure, these are installed correctly.

Problem: "Er1" is displayed.
Possible cause: The ambient temperature is lower than 0°C (32°F) or higher than 40°C (104°F).
Solution: Take a measurement in the range of the operating conditions.

Problem: "ErC" is displayed.
Possible cause: Memory error or temperature correction not completed.
Solution: Thermometer switches off after 3 seconds. Then repeat the measurement!

Problem: "HI" or "LO" is displayed with red backlight.
Possible cause: Measured temperature too high (above 42.9°C/109.2°F [ear/forehead] / 100°C/199°F [direct] or too low (below 32°C/89.6°F [ear/forehead] or 0°C / 32°F [direct]).
Solution: Repeat the measurement!

Problem: The temperature reading is lower than the typical body temperature range.
Possible cause: The lens of the temperature sensor is dirty / thermometer sensor is not aligned to eardrum / the thermometer is used within 30 minutes after being taken from a cold environment.
Solution: Clean the lens using a cotton swab / reposition the thermometer probe so that it is aligned to the eardrum / wait for more than 30 minutes after the device is moved into the measurement environment.

Problem: The temperature reading is higher than the typical body temperature range.
Possible cause: The temperature sensor is damaged or you are coming from a hot environment.
Solution: Wait more than 30 minutes after bringing the unit into the measurement environment.

If the problems cannot be solved with these instructions or other problems occur, please contact the customer service.

Disposal

This product must not be disposed of together with domestic waste. All users are obliged to hand in all electrical or electronic devices, regardless of whether or not they contain toxic substances, at a municipal or commercial collection point so that they can be disposed of in an environmentally acceptable manner.

Please remove the batteries before disposing of the device/unit. Do not dispose of old batteries with your household waste, but at a battery collection station at a recycling site or in a shop. Consult your municipal authority or your supplier for information about disposal.

Technical specifications

Name and model: **medisana** Infrared thermometer **TM A68**
Standards applied: ASTM E1965-98 / ISO80601-2-56
Display system: Digital display (LCD), 4-colour backlight (white,green,orange,red)
Power supply: 3V=, 2 x AAA batteries 1.5V
Measurement unit: °C/°F, switchable
Measuring range: Forehead/ear measurement: 32.0°C-42.9°C (89.6°F-109.2°F)
Direct measurement: 0.0°C-100.0°C (32°F-199°F)
Forehead/ear measurement: ±0.2°C (±0.4°F);
Direct measurement: ±1.0°C/±2.0°F
0.1°C/0.1°F
Measurement accuracy: (Laboratory readings)
Display resolution: After 13±1 seconds
Automatic switch-off: Up to 40 measurement results
Memory capacity: Temperature 10°C-40°C (41°F-104°F), rel. humidity:15-95% non-condensing, atmospheric pressure: 70-106 kPa
Operating conditions: Temperature -20°C-55°C (-4°F-131°F), rel. humidity:0-95% non-condensing, atmospheric pressure: 50-106 kPa
Storage conditions:
Product life: 5 years
Batteries: 2xAAA, can be used more than 3000 times
Dimensions: approx. 162 x 43 x 35 mm
Weight: approx. 76 g without batteries
Article no.: 48804
EAN no.: 40155 88 48804 7

In accordance with our policy of continual product improvement, we reserve the right to make technical and optical changes without notice.

Warranty and repair terms

Please contact your dealer or the service centre in case of a claim under the warranty. If you have to return the unit, please enclose a copy of your receipt and state what the defect is.

The following warranty terms apply:

1. The warranty period for medisana products is three years from date of purchase. In case of a warranty claim, the date of purchase has to be proven by means of the sales receipt or invoice.
2. Defects in material or workmanship will be removed free of charge within the warranty period.
3. Repairs under warranty do not extend the warranty period either for the unit or for the replacement parts.
4. The following is excluded under the warranty:
 - a. All damage which has arisen due to improper treatment, e.g. non-observance of the user instructions.
 - b. All damage which is due to repairs or tampering by the customer or unauthorised third parties.
 - c. Damage which has arisen during transport from the manufacturer to the consumer or during transport to the service centre.
 - d. Accessories which are subject to normal wear and tear.
5. Liability for direct or indirect consequential losses caused by the unit are excluded even if the damage to the unit is accepted as a warranty claim.

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